

IN THE CLAIMS:

Please amend Claims 1-52 as follows:

1. (Currently Amended) A method Method of sending a digital signal, including comprising the steps of: according to which: - — a watermarking operation is performed, consisting of

inserting a watermark, which is known to a receiving end, in the digital signal, so as to obtain a watermarked digital signal; signal; - — an encoding operation is performed, consisting of

encoding the watermarked digital signal by means of an encoder, so as to obtain an encoded watermarked signal which can be decoded by means of a parametrisable iterative decoder; and decoder; and — a sending operation is performed, consisting of sending said the encoded, watermarked signal, wherein the sent, encoded watermarked signal is processable by the receiving end to obtain the watermark, to compare the obtained watermark to a known watermark, and to modify signal, whereby in the receiving end; at least one parameter of the decoder can be modified according to the a result of the comparison between a the watermark obtained from the sent, encoded watermarked signal and the known watermark.

2. (Currently Amended) A sending Sending method according to Claim 1, wherein said encoding step encodes the watermarked digital signal using the encoder is a turbo-encoder.

3. (Currently Amended) A sending ~~Sending~~ method according to Claim 1, further comprising the step of wherein a modulation operation is also performed, consisting of modulating the encoded watermarked signal before the performing said sending step operation.

4. (Currently Amended) A sending ~~Sending~~ method according to Claim 3, wherein said modulating the modulation step operation modulates consists of modulating the encoded watermarked signal by means of a modulation of the QPSK type.

5. (Currently Amended) A sending ~~Sending~~ method according to Claim 3, wherein said modulating the modulation step operation consists of modulating modulates the encoded watermarked signal by means of a modulation of the OFDM type.

6. (Currently Amended) A sending ~~Sending~~ method according to Claim 1, wherein said the watermarking watermark insertion step operation uses a technique of the fragile or semi-fragile type.

7. (Currently Amended) A sending ~~Sending~~ method according to Claim 1, wherein said watermark insertion step is performed on a digital signal comprising is an image signal.

8. (Currently Amended) A device Device for sending a digital signal, comprising  
having: — watermarking means, for  
watermarking means for inserting a watermark, which is known to a receiving end, in the  
digital signal, said watermarking means outputting a watermarked digital signal; signal;—  
— encoding means, for  
encoding means for encoding the watermarked digital signal by means of an encoder, said  
encoding means outputting an encoded watermarked signal decodable which can be decoded by  
means of a parameterisable iterative decoder; and decoder; and—  
— sending means, for  
sending means for sending said encoded watermarked signal, wherein the sent, encoded  
watermarked signal is processable by the receiving end to obtain the watermark, to compare the  
obtained watermark to a known watermark, and to modify signal, whereby in the receiving end,  
at least one parameter of the decoder can be modified according to the result of the comparison  
between a the watermark obtained from the sent, encoded watermarked signal and the known  
watermark.

9. (Currently Amended) A sending Sending device according to Claim 8, the preceding  
claim; wherein the said encoder is a turbo-encoder.

10. (Currently Amended) A sending Sending device according to Claim 8, further comprising ~~wherein also having~~ modulation means for modulating the encoded watermarked signal.

11. (Currently Amended) A sending Sending device according to Claim 10, wherein said the modulation means modulates ~~modulate~~ the encoded watermarked signal by means of a modulation of the QPSK type.

12. (Currently Amended) A sending Sending device according to Claim 10, wherein the said modulation means modulates ~~modulate~~ the encoded watermarked signal by means of a modulation of the OFDM type.

13. (Currently Amended) A sending Sending device according to Claim 8, wherein the said watermarking means use a technique of the fragile or semi-fragile type.

14. (Currently Amended) A sending Sending device according to Claim 8, wherein said the digital signal is an image signal.

15. (Currently Amended) A method Method of decoding a received digital signal, said the digital signal having been watermarked with a known watermark, including comprising the

steps of: according to which - a decoding operation is performed, consisting of

decoding at least part of the received digital signal by means of a parameterisable iterative decoder; decoder, - a watermark extraction operation is performed, consisting of

extracting the watermark from the decoded signal; signal;

- a comparison operation is performed, consisting of comparing the extracted watermark with the a known watermark; and watermark; and - a modification operation is performed, consisting of

modifying, if necessary, at least one parameter of the decoder decoding according to the result of the comparison in said comparing step.

16. (Currently Amended) A decoding Decoding method according to Claim 15, wherein said decoding step comprises the step of performing a number of decoding iterations on at least part of the received digital signal, and

wherein the said modifying modification step operation comprises the steps of: includes:  
- an operation of calculating the number of decoding iterations to be applied to the decoding, consisting of by determining a the number of decoding iterations to be applied as a parameter of the decoding operation, according to the result of the comparison; and comparison; and -  
- an operation of adjustment of

adjusting the decoding operation performed by said decoding step by decoding,  
consisting of applying to at least part of the received digital data during decoding the number of  
iterations previously determined decoding iterations.

17. (Currently Amended) A decoding Decoding method according to Claim 15,  
wherein said decoding step performs the decoding operation is a partial decoding  
operation by operation, consisting of decoding the received digital data by means of an iterative  
decoder, and applying a decoding an iteration or a decoding half-iteration, so as to obtain a  
partially decoded watermarked digital signal, and

wherein the said modifying modification operation step comprises the steps of: includes:

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performing a quality testing operation by operation, consisting of testing whether  
the quality of the extracted watermark is satisfactory; and satisfactory; and

as long as the quality is not satisfactory, an

performing an additional decoding iteration or half-iteration when the quality  
testing is not satisfactory in the decoding, so as to finally obtain the optimum number of  
decoding iterations or half-iterations to be applied as a parameter of the decoding operation  
decoding.

18. (Currently Amended) A decoding Decoding method according to Claim 15, wherein  
said decoding step is performed by an the iterative decoder comprising is a turbodecoder.

19. (Currently Amended) A decoding Decoding method according to Claim 15, wherein the received digital signal is an image signal.

20. (Currently Amended) A method Method of receiving a digital signal, including steps according to which: - a comprising the steps of:  
receiving operation is performed, consisting of receiving modulated encoded symbols containing a watermark; - a demodulation operation is performed;  
consisting of  
demodulating the received modulated encoded symbols, so as to obtain demodulated encoded data; and data; and - a decoding operation is performed, consisting of  
decoding the demodulated encoded data using a decoding method according to Claim 15.

21. (Currently Amended) A Receiving method according to Claim 20, wherein said the demodulation demodulating step operation comprises the step consists of applying a demodulation corresponding to a modulation of the QPSK type.

22. (Currently Amended) A Receiving method according to Claim 20, wherein said demodulating the demodulation step comprises the step operation consists of applying a demodulation corresponding to a modulation of the OFDM type.

23. (Currently Amended) A device Device for decoding a received digital signal, said the digital signal having been watermarked with a known watermark, comprising: having:-  
decoding means, for

decoding means for decoding at least part of the digital signal by means of a parameterisable iterative decoder; decoder; - watermark extraction means, for  
watermark extracting means for extracting the watermark from the decoded signal; signal;  
- comparison means, for

comparing means for comparing the extracted watermark with the known watermark; and  
watermark, and - modification means, for  
modifying means for modifying, if necessary, at least one parameter of the decoding  
means according to the result of the comparison performed by said comparing means.

24. (Currently Amended) A decoding Decoding device according to Claim 23,  
wherein said decoding means performs a number of decoding iterations on at least part of  
the received digital signal,

wherein said modifying the modification means comprises: include:-  
means of calculating means for calculating the  
number of decoding iterations to be performed by said decoding means, in order to determine a  
the number of decoding iterations to be applied as a parameter of the said decoding means,  
according to the result of the comparison by said comparing means; and ; and -  
means of

adjusting means for adjusting the decoding operations of said decoding means, in order to apply, during the decoding by the decoding means, the number of iterations previously determined decoding iterations.

25. (Currently Amended) A decoding Decoding device according to Claim 23,  
wherein the said decoding means comprises partial decoding means for means, for decoding the received digital data by means of an iterative decoder, by applying a decoding an iteration or a decoding half-iteration, the said partial decoding means outputting a partially decoded watermarked digital signal; and

wherein the said modifying modification means comprises quality include: - quality testing means for means, for testing whether the quality of the extracted watermark is satisfactory, satisfactory;

    said partial decoding means effecting, as long as the quality is not satisfactory, an additional decoding iteration or half-iteration in the decoding, so as to supply by in the end of the decoding operation performed by said decoding means on the digital signal the optimum number of decoding iterations or half-iterations to be applied as a parameter of the decoding means.

26. (Currently Amended) A decoding Decoding device according to Claim 23, wherein the said iterative decoder is a turbodecoder.

27. (Currently Amended) A decoding Decoding device according to Claim 23, wherein the received digital signal is an image signal.

28. (Currently Amended) A device comprising: Device for receiving a digital signal; having: - ~~receiving means, for~~

receiving means for receiving modulated encoded, symbols containing a watermark;  
symbols; - demodulation means, for  
demodulating means for demodulating the received modulated encoded symbols received;  
the demodulation means and outputting demodulated encoded data; and data; and-  
— decoding means, for  
decoding means for decoding the demodulated data by means of a decoding device  
according to Claim 23.

29. (Currently Amended) A receiving Receiving device according to Claim 28, wherein the said demodulating demodulation means applies apply a demodulation corresponding to a modulation of the QPSK type.

30. (Currently Amended) A receiving Receiving device according to Claim 28, wherein the said demodulating demodulation means applies apply a demodulation corresponding to a modulation of the OFDM type.

31. (Currently Amended) A digital Digital signal processing apparatus comprising:  
means for processing a digital signal; and  
means for implementing apparatus, having means adapted to implement a sending  
method for sending the processed digital signal according to Claim 1.

32. (Currently Amended) A digital Digital signal processing apparatus comprising:  
apparatus, having  
means for decoding a received digital signal according to the adapted to implement a  
decoding method according to of Claim 15; and  
means for processing the received, decoded digital signal.

33. (Currently Amended) A digital Digital signal processing apparatus comprising  
apparatus, having a sending device according to Claim 8.

34. (Currently Amended) A digital Digital signal processing apparatus comprising  
apparatus, having a decoding device according to Claim 23.

35. (Currently Amended) A telecommunications network comprising:  
a base station; and  
at least one peripheral station configured to communicate with said base station, wherein  
said at least one peripheral station comprises a sending device configured Telecommunications  
network, having means adapted to implement a sending method according to Claim 1.

36. (Currently Amended) A telecommunications network comprising:  
a base station; and  
at least one peripheral station configured to communicate with said base station, wherein  
said at least one peripheral station comprises a receiving device configured Telecommunications  
network, having means adapted to implement a receiving method according to Claim 20.

37. (Currently Amended) A telecommunications network comprising  
Telecommunications network, having a sending device according to Claim 8.

38. (Currently Amended) A telecommunications network comprising  
Telecommunications network, having an information a receiving device according to Claim 28.

39. (Currently Amended) A mobile Mobile station in a telecommunications network  
comprising:  
a source of data representable by a digital signal; and  
means for sending a digital signal representing the data network, having means adapted  
to implement a according to the sending method according to of Claim 1.

40. (Currently Amended) A mobile Mobile station in a telecommunications network  
comprising:  
a module configured to receive electromagnetic signals; and network, having means  
adapted to implement  
a device receiving the electromagnetic signals from said module and configured to  
perform the a receiving method according to Claim 20 on the electromagnetic signals received  
from said module.

41. (Currently Amended) A mobile Mobile station in a telecommunications network  
comprising Mobile station in a telecommunications network, having a sending device according  
to Claim 8.

42. (Currently Amended) A mobile Mobile station in a telecommunications network,  
comprising having a receiving device according to Claim 28.

43. (Currently Amended) A base Base station in a telecommunications network comprising a sending device configured network, having means adapted to implement a sending method according to Claim 1.

44. (Currently Amended) A base Base station in a telecommunications network comprising a receiving device configured network, having means adapted to implement a receiving method according to Claim 20.

45. (Currently Amended) A base Base station in a telecommunications network comprising network, having a sending device according to Claim 8.

46. (Currently Amended) A base Base station in a telecommunications network comprising network, having a receiving device according to Claim 28.

47. (Currently Amended) An information storage medium which can be read readable by a computer or a microprocessor, and storing instructions of a computer program for instructing the computer or microprocessor to implement program, making it possible to implement a sending method according to Claim 1.

48. (Currently Amended) An information storage medium according to Claim 47, wherein said information storage medium it is removable, partially or totally removable from a device in which said information storage medium is stored for reading by the computer or the microprocessor.

49. (Currently Amended) An information storage medium which can be read readable by a computer or a microprocessor, and storing instructions of a computer program for instructing the computer or microprocessor to implement program, making it possible to implement a decoding method according to Claim 15.

50. (Currently Amended) An information storage medium according to Claim 49, wherein said information storage medium it is removable, partially or totally removable from a device in which said information storage medium is stored for reading by the computer or the microprocessor.

51. (Currently Amended) A computer program embodied in a computer readable medium for instructing a computer to perform performing product containing sequences of instructions for implementing a sending method according to Claim 1.

52. (Currently Amended) A computer program embodied in a computer readable medium for instructing a computer to perform product containing sequences of instructions for implementing a decoding method according to Claim 15.